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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,757	09/17/2003	Eiji Hayashi	Q77556	3827	
23373 75	590 03/21/2006		EXAM	INER	
SUGHRUE MION, PLLC			BOES, TE	BOES, TERENCE	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20037		3682		

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/663,757	HAYASHI, EIJI			
Office Action Summary	Examiner	Art Unit			
	Terence Boes	3682			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 06 Ma	arch 2006.				
2a) ☐ This action is FINAL . 2b) ☒ This					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1,2 and 4</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 4</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment/c)					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species I, Figures 1,2 and 3 in the reply filed on March 6, 2006 is acknowledged.

Claims 3,5-14 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on March 6, 2006.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - The disclosure is replete with grammatical errors too numerous to identify
 in their entirety. The disclosure appears to be a literal translation to
 English, and is difficult to understand. Below are just a few examples.
 - The expression "By the way" (P3/L5) is unnecessary and awkward.
 - The sentence beginning "By the way..." (P3/L5) appears to be a direct translation to English and is a run-on sentence.
 - The expression "On the other hand" is unnecessary and awkward.
 - The word "ill" (P4/L9) is inappropriate.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "large number" in claim 1 is a relative term which renders the claim indefinite. The phrase "large number" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The number of balls in the claim is indefinite as it is indefinite as to how many balls constitutes a large number.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1,2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Bohnhoff (USPN 3,170,336).

Bohnhoff discloses:

- A screw shaft (10) including a spiral-shaped screw groove (10a,10b)
 formed in an outer peripheral surface thereof
- A nut (12) movably fitted with the screw shaft and including a screw groove formed in an inner peripheral surface thereof so as to correspond to the screw groove of the screw shaft

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A large number of balls (14) rolably disposed in a loaded raceway formed
 between the two screw grooves

- A side cap (16) mounted on the outer peripheral portion of the nut and including a ball circulation passage (22a,22b) for scooping up the balls rolling along the loaded raceway in a direction coincident with the lead angle of the two screw grooves and returning the balls to the loaded raceway
- Two screw grooves are respectively formed as multiple thread screws
 (10a,10b) and the side cap is disposed on each of the multiple threads.
- The nut includes a plurality of ball circulation circuits (27a,27b,10a,10b)
 each formed by the loaded raceway (10a,10b) and the ball circulation
 passage (22a,22b)
- The circulation movements of the balls in the plurality of ball circulation circuits are carried out by the side caps (16,16') respectively disposed on associated ball circulation circuits.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Of particular relevance is USPA 2002/0056330 which discloses both a side cap disposed on outer periphery of a nut and a plurality of ball circulation circuits.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terence Boes whose telephone number is (571) 272-4898. The examiner can normally be reached on Monday - Friday 9:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TB 3/16/06

RICHARD RIDLEY
SUPERVISORY PATENT EXAMINER